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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,517	10/14/2005	Masayuki Yoshida	279690US2PCT	1618
22850 7590 03/06/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER TRINH, MICHAEL MANH				
ART UNIT 2822		PAPER NUMBER		
NOTIFICATION DATE 03/06/2009		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary**Application No.**

10/553,517

Applicant(s)

YOSHIDA ET AL.

Examiner

Michael Trinh

Art Unit

2822

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 December 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 3 and 4 is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date: _____

DETAILED ACTION

*** This office action is in response to Applicant's Amendment filed December 09, 2008.

Claims 1-4 are pending. Claims 5-8 were cancelled.

*** The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(c) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Murakami et al (4,604,160).

Re claim 1, Murakami teaches a sheet forming method of forming a sheet used as each layer when forming a laminated electronic part, comprising: a step of depositing a photosensitive substance 2 as a plating resist (Figs 2c-2g; col 5, lines 40-49; col 4, line 25 to col 6; Figs 2a-2g) of which an exposed portion is removed by a developer up to a predetermined thickness onto a support body 1,6; a step of executing an exposure process for forming a predetermined pattern upon the photosensitive substance, executing a process for development-removing the pattern subjected to the exposure process by use of the developer (col 5, lines 40-49; Fig 2c), executing an electric plating as an electro-depositing process of using a substance 3 of copper plating having an electrical characteristic onto the portion with the photosensitive substance removed (Fig 2d), and forming said sheet or part of said sheet on said support body (Figs 2d-2e); and a step of removing said support body from said sheet (Figs 2c-2g; col 5, line 56 to col 6, line 12).

Claim Rejections - 35 USC § 103

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami et al (4,604,160) taken with Sasaki (2003/0038372) and Nishitani et al (6,831,357).

Murakami teaches a sheet forming method of forming a sheet used as each layer when forming a laminated electronic part, as applied to claim 1 above, and fully repeated herein.

Re claim 2, Murakami does not teach repeating the processes a plurality number of time.

However, Sasaki teaches (at Figs 2-11; paragraph 54,61) repeating a plurality number of time of the exposure process, the developing process, and the depositing process in order to form a multi-layer structure. Nishitani teaches (at Figs 4-9; col 10, line 40 to col 13) repeating a plurality number of time of processes in order to form a multi unit wiring layer, wherein removing a portion of the photosensitive substance 5b to form an opening 32 (Figs 4-6; col 11, lines 25-37) is performed by patterning processing based on the photolithographic technique, inherently, comprising an exposure process, and a developing process, and an electro-depositing process (col 11, lines 1-3; col 13, lines 10-19).

Therefore, the subject matter as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sheet having a laminated electronic part thereon of Murakami by repeating a plurality number of time of the exposure process, the developing process, and the electro-depositing process, as taught by Sasaki and Nishitani. This is because of the desirability to form the sheet having a multi-unit wiring structure thereon for facilitating and providing electrical connections.

Allowable Subject Matter

4. Claims 3 and 4 are allowed.

The references of record, alone or in combination, do not fairly anticipatively disclose each and every aspect of the claimed method, or fairly make a prima facie obvious case of the claimed method as recited in claims 3 and 4.

Response to Amendment

5. Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael M. Trinh whose telephone number is (571) 272-1847. The examiner can normally be reached on M-F: 9:00 Am to 5:30 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on (571) 272-2429. The fax phone number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
Oacs- 24.5-17

/Michael Trinh/

Primary Examiner, Art Unit 2822